

ABSTRACT OF THE DISCLOSURE

A differential limiting control apparatus for a vehicle has: clutch unit interposed between one rotational shaft and the other rotational shaft for
5 variably transmitting a driving force between the one rotational shaft and the other rotational shaft; target differential speed setting unit for setting a target differential speed between the one rotational shaft and
10 the other rotational shaft, actual differential speed detecting unit for detecting an actual differential speed between the one rotational shaft and the other rotational shaft, and clutch torque computing unit for computing an engagement force of the clutch unit by obtaining a
15 deviation between the target differential speed and the actual differential speed, configuring a switching function by using at least a polarity related to an integral term of the deviation, and applying a sliding mode control.